

# Streetlight Program



- Enhancing public safety
- Saving utility costs



- Saving energy
- Creating smart city opportunities

## Regional Streetlight Program Objectives



- In 2014, WRCOG's Executive Committee directed staff to **initiate a regional effort to help jurisdictions purchase their streetlights** from Southern California Edison (SCE)
- Once purchased, streetlights lamps would be retrofitted to LED, and maintenance (replacing lights, pole knockdowns, etc.) would be implemented under a regional contract
- **Major objectives** of the Program:
  - Save energy
  - Save on jurisdiction utility bills
  - Enhance public safety
  - Create "smart city" and revenue-generating opportunities



## Which jurisdictions are participating in the Regional Program?



Eastvale

Hemet

Jurupa Community Services District

Lake Elsinore

Menifee

Moreno Valley

Murrieta

Perris

San Jacinto

Temecula

Wildomar



## The Big Picture...



- Overall effort **involves 55,000 streetlights**
  - To date, approximately 37,222 have been retrofit
- The new LED lamps
  - **Adhere to American Medical Association recommendations** for LED lighting
    - LED lamps are no greater than 3000k
  - **Provide true colors** (compared to existing sodium lamps) that **improve neighborhood appearance and public safety**
  - **Support Palomar Observatory night-time sky objectives** (reduce light pollution)
  - A demonstration area (in Hemet) provided for members of the public and stakeholders to view and guide selection of LED fixtures
- **Overall Savings** to participating jurisdictions
  - Estimated at **\$70 million over 20 years**



## The details: Eastvale

- Streetlight ownership transitioned from SCE to the City of Eastvale
  - 4,107 streetlights
- Retrofit of lights to LED
  - Retrofit Start: June 4, 2019
  - Completion: Fall 2019
  - 4,101 streetlights have been retrofit to LED
    - Remaining poles include those that were not found in the field due to a data discrepancy, knockdown or removal.

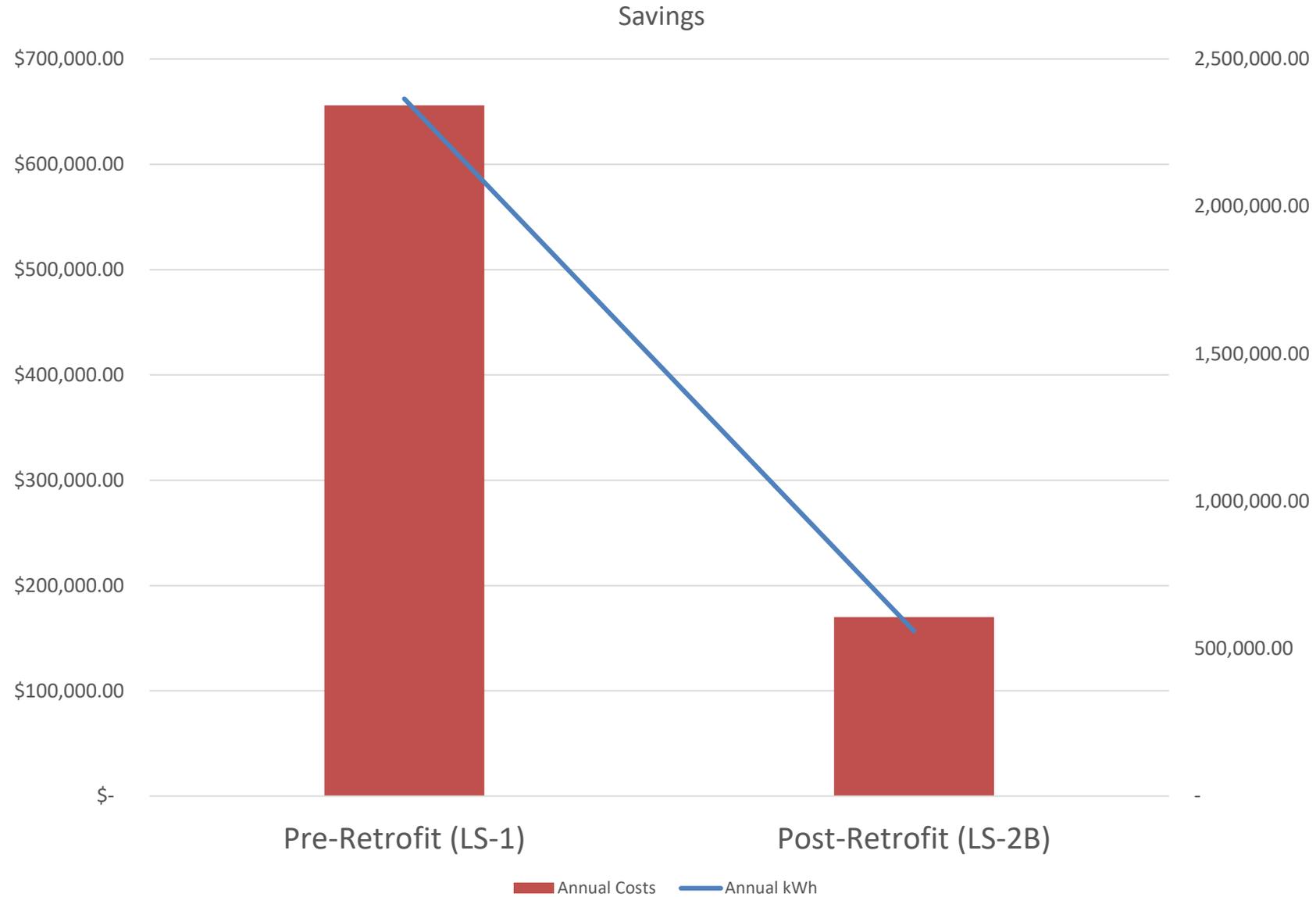
## Savings for Eastvale



- Estimated Annual Savings:
  - Est. **\$486,007** in annual billing savings (**74% reduction in annual utility costs**)
  - Estimated 1,806,031 kWh annual energy savings (**76% reduction in annual kWh**)



# Savings for Eastvale: Est. \$486,007 per year!



# Before and After: Improved Neighborhood Appearance True colors benefit public safety



Picture taken under sodium lamps at night



Picture taken under LED lamps at night



# Improved ground coverage from new lights

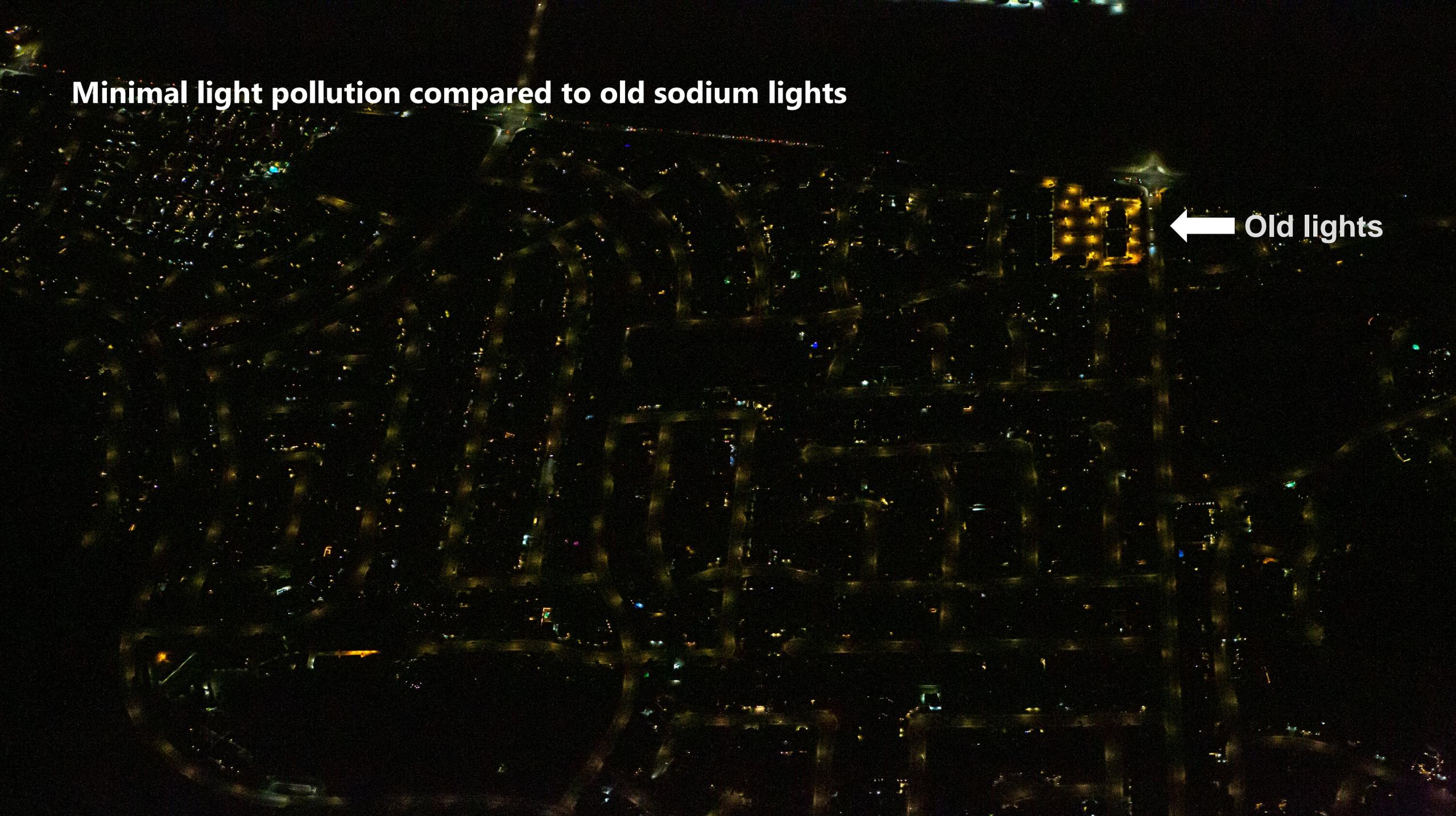


Old sodium lights



**Minimal light pollution compared to old sodium lights**

**← Old lights**



## SCE Rebate from LED installation



4,101 streetlights have been retrofit to LED

Total Rebate for the  
City of Eastvale: **\$413,918**





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